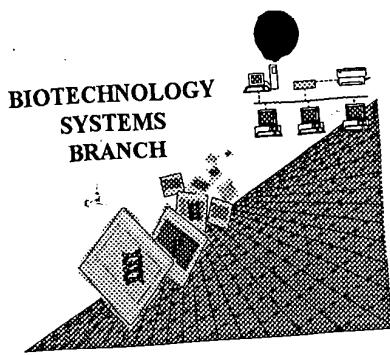


## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/904,420  
O1PE  
Source: \_\_\_\_\_  
Date Processed by STIC: 8/8/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE  
APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A  
NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

**Raw Sequence Listing Error Summary**

SERIAL NUMBER: 09/904,420

**ERROR DETECTED**

**SUGGESTED CORRECTION**

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1 Wrapped Nucleic  
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino  
Numbering

The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length

Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0  
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences  
(OLD RULES)

Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences  
(NEW RULES)

Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9 Use of n's or Xaa's  
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213>  
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220>

Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0  
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/904,420

DATE: 08/08/2001  
TIME: 07:56:04

Input Set : A:\Rp1003.app  
Output Set: N:\CRF3\08082001\I904420.raw

3 <110> APPLICANT: Begovich, Ann B  
 4 Erlich, Henry A  
 5 Grupe, Andrew  
 6 Noble, Janelle A  
 7 Peltz, Gary A  
 8 Reynolds, Rebecca L  
 9 Walker, Karen M  
 10 Zangenberg, Gabriele  
 12 <120> TITLE OF INVENTION: TCF-1 Nucleotide Sequence Variation  
 14 <130> FILE REFERENCE: RPA1003  
 16 <140> CURRENT APPLICATION NUMBER: US/09/904,420  
 17 <141> CURRENT FILING DATE: 2001-07-12  
 19 <150> PRIOR APPLICATION NUMBER: US 60/219,812  
 20 <151> PRIOR FILING DATE: 2000-07-21  
 22 <160> NUMBER OF SEQ ID NOS: 9  
 24 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 2855  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Homo sapiens  
 31 <400> SEQUENCE: 1  
 32 ggatccggg ggtccgggg gccggcgccg gggccgggg cgaggccgag gtgagcccc 60  
 33 gccggcgccg gtcctccccc cgcgtcggc gcccggccg ccccaagtgc ggcggccct 120  
 34 cggggtctcc agacagagcg tccctgcccc ggcgtcggcc cgcaccccg cggtcccacc 180  
 35 gcccctcaact cccctccgt tccctccca ggcgtcggg cgggaacacc gtgcgcagag 240  
 36 actcttcccg gacaaacttc cagagccct ggaggacggt gagttctgc ccggcccgcc 300  
 37 ttcccttctgt cgcgtcagg ccctggccctc ggtgggacgg ggacgccaag gaccgcgggg 360  
 38 agccgggtgc ctccccacc gcagtcagg aggccggaga acccagggtt ggagagtggg 420  
 E--> 39 gggccggctt cccggcgcc gccgggtcga gtcacttccg gtgcctgac ctttatagga 480  
 40 gtaaacagac cccgcgcata cccgectccc ctccgtccca ggtgactgac taatccgccc 540  
 41 ctttcaggag acagaattgg ccaagggttc ttgggtggag ggtgggggt gggaggtcaa 600  
 42 gtaggggcca cctcggggag gcctggccctc caggcccttc ccctaaaact tggcaactgcc 660  
 43 gatactccca gcccgttccct tcccaagtca ggaacttgca ggggacccct tggcaattct 720  
 44 ttttctctca agagcagaca gccttcagtc ccaggccgtg ccagggtctgg tgtgtctgac 780  
 45 ccagctgtgg ttttccagg cctgaaggcc ccggagtgca ccagccgtat gtacaaagag 840  
 46 accgtctact ccgccttcaa tctgtctatg cattaccac cccctcgcc agcaggccag 900  
 47 caccccccacg cgcagcccc gctggtaat ggaccccgcc actcaccac cctccttctc 960  
 48 attttctcgc acaaggccaa tcagcccccc cacgggtgtcc cccaaactctc tctctacgaa 1020  
 49 catttcaaca gcccacatcc caccctgtca cctgcggaca tcagccagaa gcaaggtaca 1080  
 50 agcctggat gcccactcac tcagcttctc tcctctgcag ttacacggcc tctgcagacc 1140  
 51 cctgacctct ctggcttcta ctccctgacc tcaggcagca tggggcagct ccccccacact 1200  
 52 gtgagctgtt gatgtgggc ccagctcagt gttacttcc ttccctgcctc cagttcacc 1260  
 53 cacccatctc tgatgtctagg ttctgggtta cctggtcacc cagcagccat ccccccacccg 1320

see  
item 9  
in Era  
summary  
sheet

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/904,420

DATE: 08/08/2001  
TIME: 07:56:04

Input Set : A:\Rpa1003.app  
Output Set: N:\CRF3\08082001\I904420.raw

54 gccattgtgc ccccctcagg gaagcaggag ctgcagccct tcgaccgcaa cctgtgagt 1380  
55 aaagacaatc ctgaacaatc tggatttg 1440  
56 gcagagaagg aggccaagaa gccaaaccatc aagaagcccc tcaatgcctt catgtgtac 1500  
57 atgaaggaga tgagagccaa ggtcattgca gagtgcacac ttaaggagag cgctgccatc 1560  
58 aaccagatcc tggcccgag ggtgagacca tggcaggtg ggctggcagg gatgtcccc 1620  
59 gaccatcttc agcctgtgc agcctgtga ctccctgtatc caccacactt gcccctttc 1680  
60 cctgttgcag tggcacgcg tgcgtcgaga agagcaggcc aagtactatg agctggccg 1740  
61 caaggagagg cagctgcaca tgcgtata cccaggctgg tcagcgcggg acaactacgt 1800  
62 gagtgcctag tgtctgagca tccctcctt tggccctgc aggggaagaa gaagaggcgg 1860  
63 tcgagggaaa agcaccagaatccaccaca ggtgagacct tctctcgctc taccctctg 1920  
64 gcatggctgt gaggcagaccc tgctcgctt aagaaatgcc gtgctcgctt tggccta 1980  
65 cagcagacgg attggtgtgg tccgtgcagg tgggttgc cccaggggaa gttctattcc 2040  
66 attcattcca tcagagacaa actggccca agaactcaag gatggtaatg gacaagagtc 2100  
67 actgtccatg tcttcttcct cttagcccgag ttgaggactg ggatggctgg gcaaggaagc 2160  
68 cataggcatt gggccctt gccttggc agatgtgatc cccacaaaca catctggaga 2220  
69 agctcaaagg ccgggactgg gagatgactc ccttggaaaga caggagagat gactccctt 2280  
70 gaagacagat gacagcccat aggccttagt acaaaaggcc ccttgggac cttgtggctg 2340  
71 ttctggaaac tgcacctgtc cttaggtctgg gccagaccaaa gcaaatggc agtctgagga 2400  
72 cactgactta ccaccaagt cccaggaaga gaggacaagg aatcagccag gcctgtgca 2460  
73 aggcagcatt ttttgtgtgt ggtgtatgac tatgaattca ccctctgttt acagataact 2520  
74 ctcttcacta ttcccttaggag gaaaaagaaa tgcattcggt atttacccgg agaaggccgc 2580  
75 tgccccagcc cggttcccttc cgatgacagt gctctaggct gcccgggtc cccagctccc 2640  
76 caggactcac cctcatacca tctgctgcccg cgtttccca cagaactgct tactagccct 2700  
77 gaaaaagatt attgtatgt tcaaaaatatt tttgtattgt taatgcata tcataaaaa 2760  
78 acttttaaac atgagaataa agatacttt tactgggtt gttttcaaa gcctgaccct 2820  
79 gagataaag ctgtttcagt aacagagcat gatat 2855

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/904,420

DATE: 08/08/2001  
TIME: 07:56:05

Input Set : A:\Rpa1003.app  
Output Set: N:\CRF3\08082001\I904420.raw

L:16 M:270 C: Current Application Number differs, Replaced Application Number  
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:39 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1